

Figure 1
Dispersion of Carbon Nanotubes by Single-stranded DNA

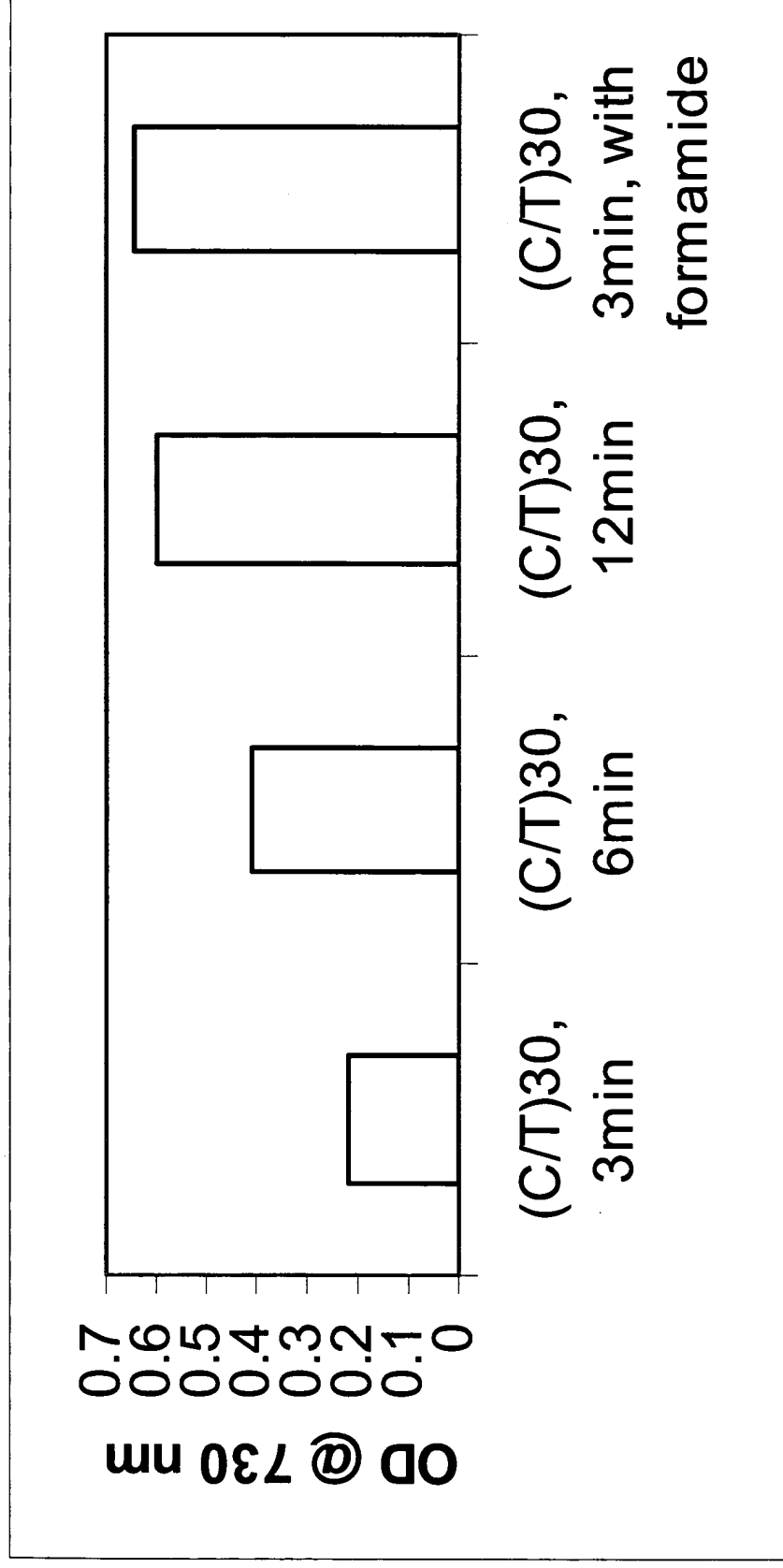
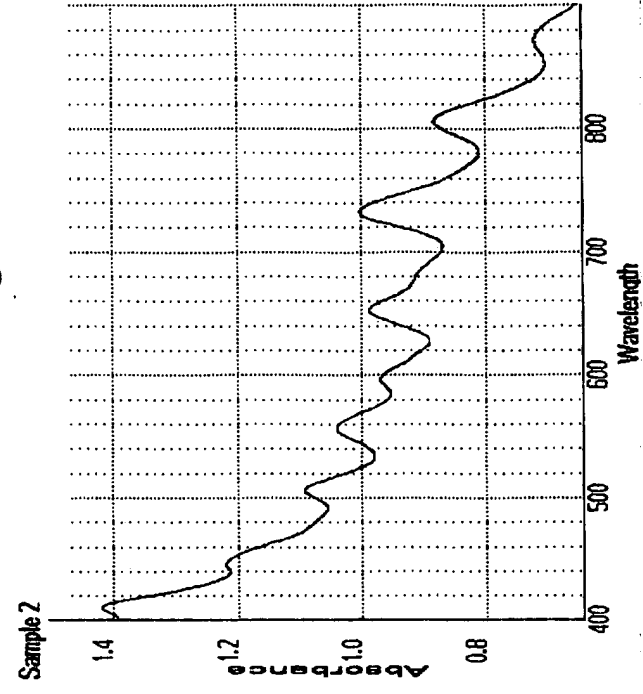


Figure 2

Sonication time and addition of denaturants on dispersion of carbon nanotubes

3A. 0.2 mg/ml ssDNA



3B. 1% SDS

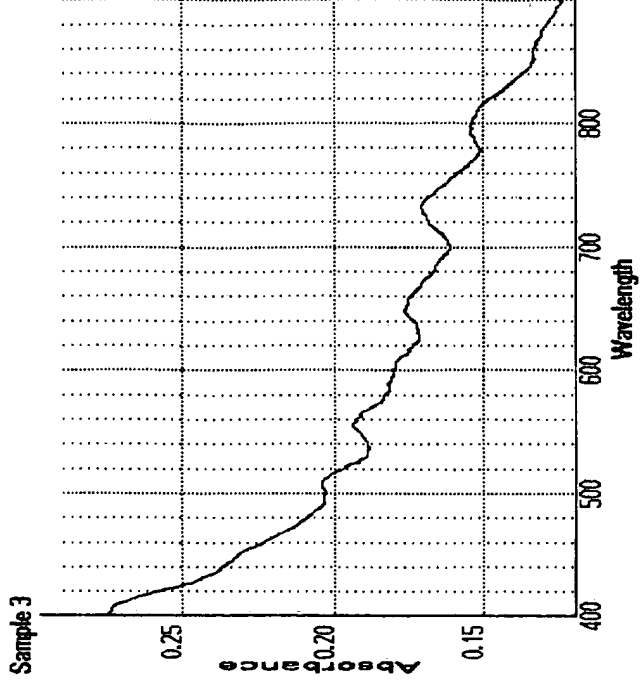
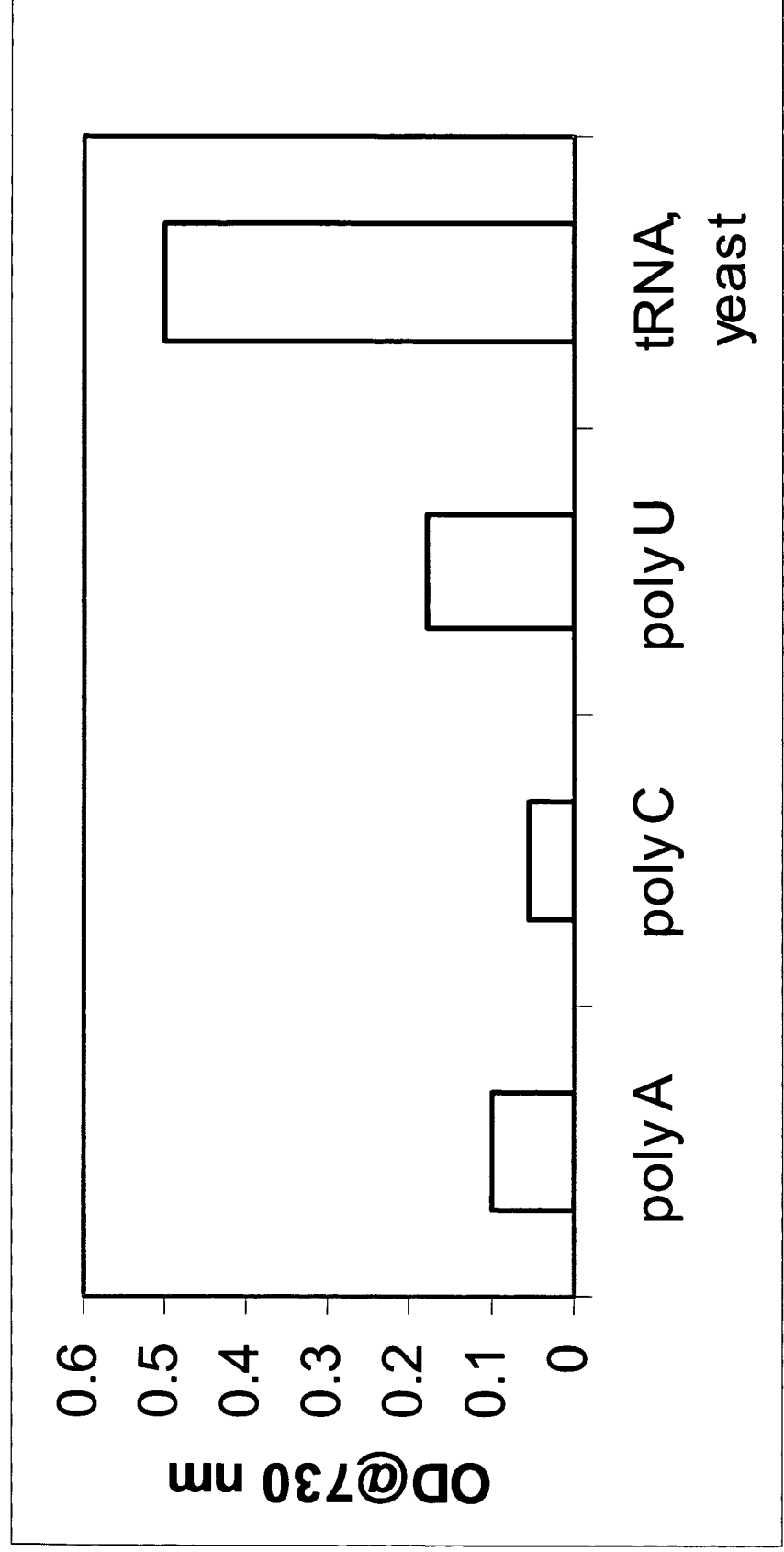


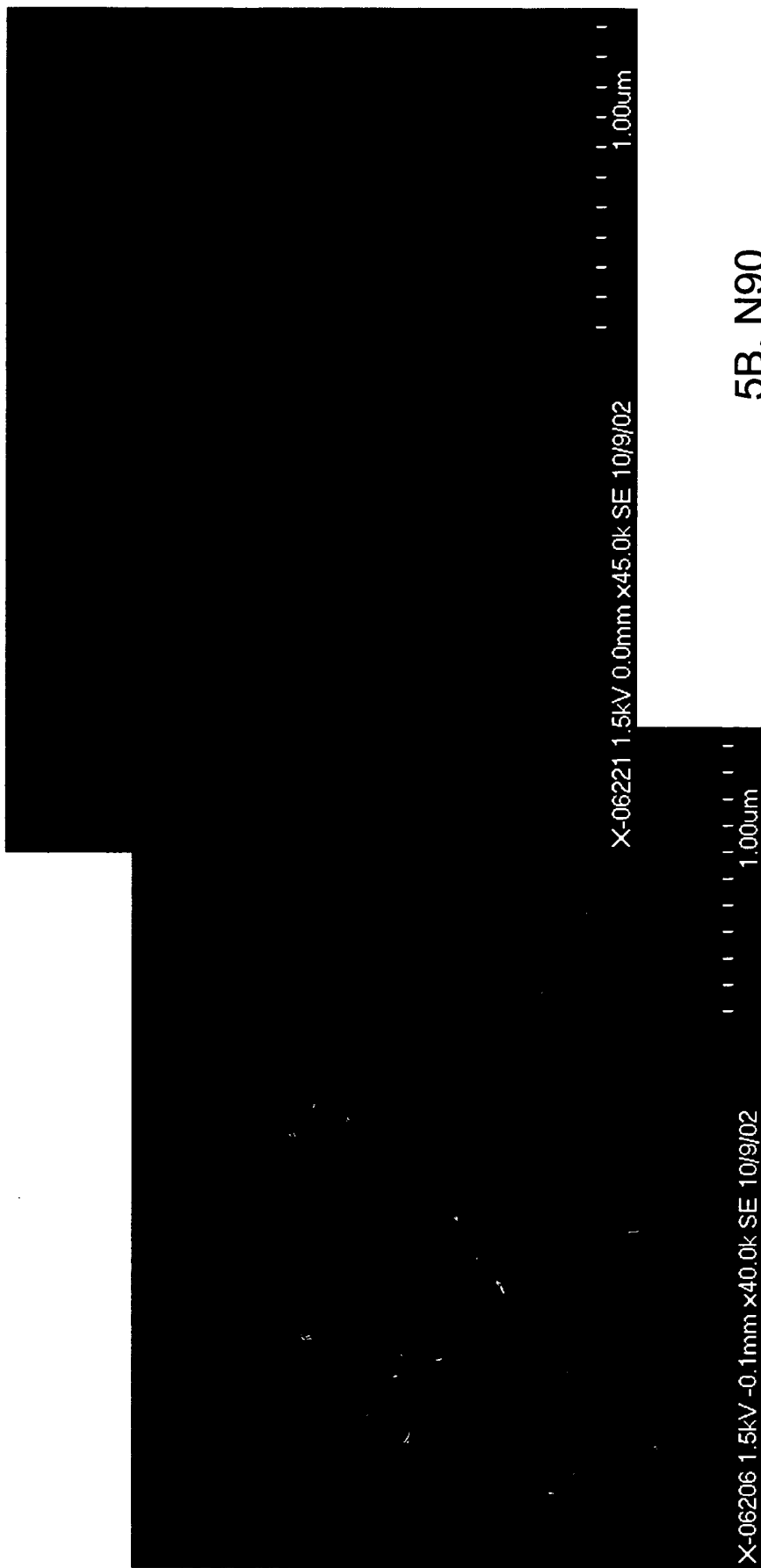
Figure 3

Dispersion of carbon nanotubes by ssDNA versus surfactant



Dispersion of carbon nanotubes by RNA

Figure 4



5A. Biotin-N90

Immobilization of DNA Dispersed Carbon Nanotubes through Biotin-Streptavidin Interaction

Figure 5

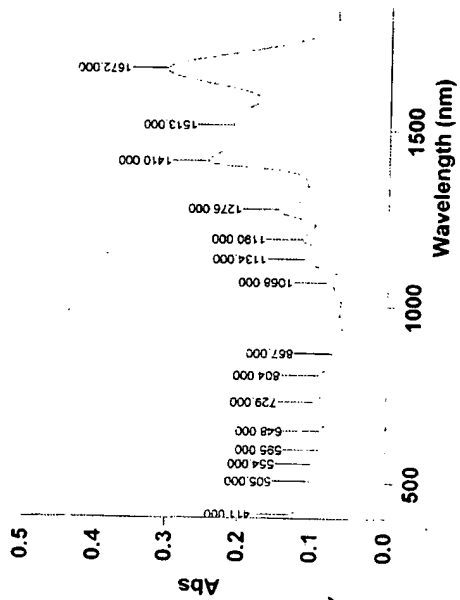
A



fraction

fraction

B



C

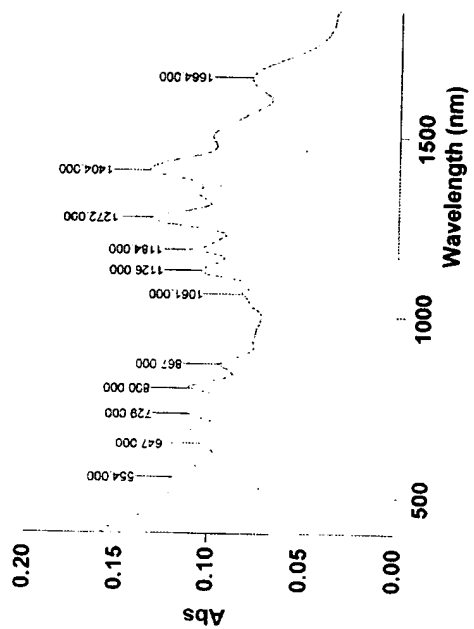


Figure 6

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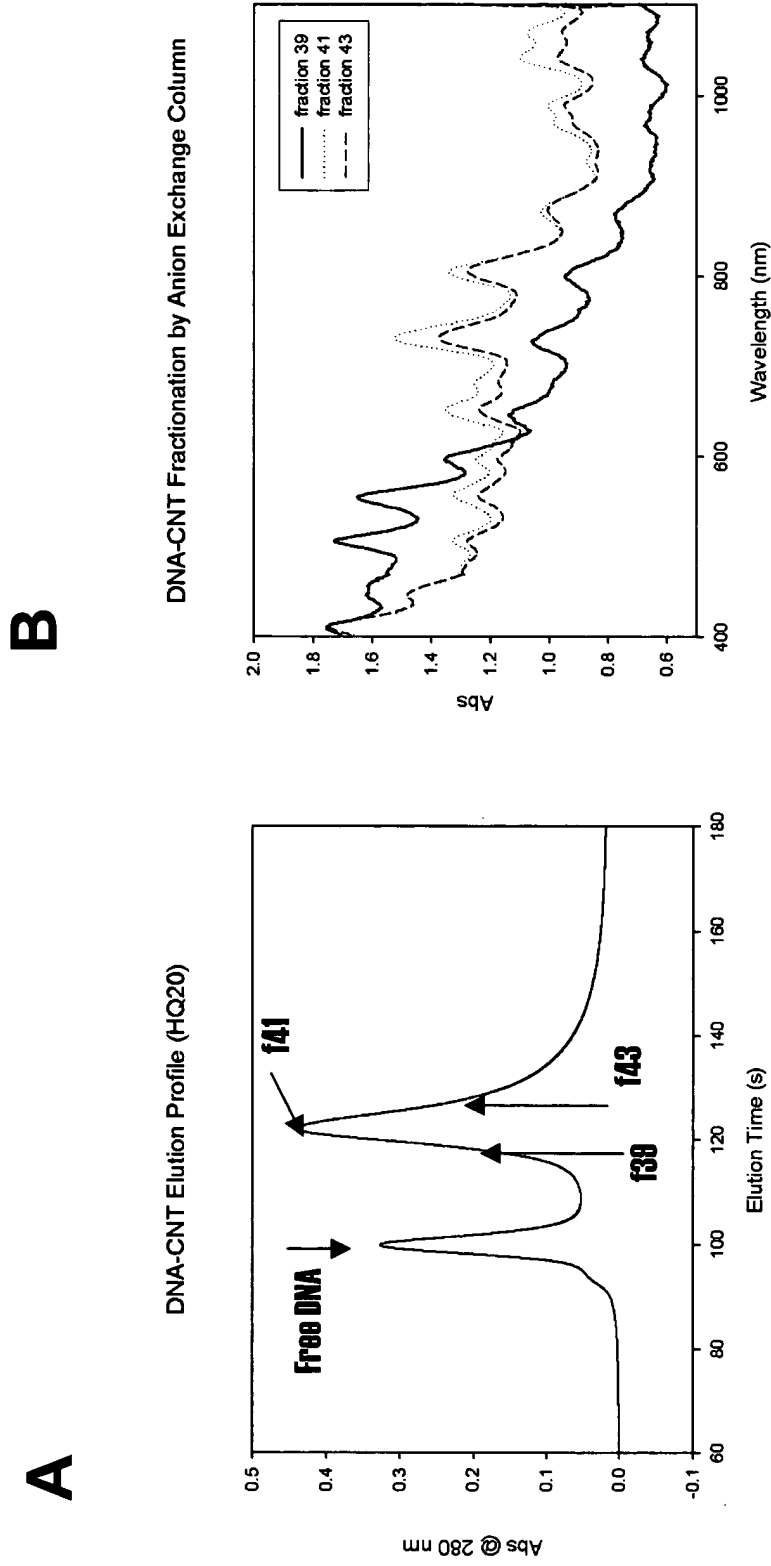


Figure 7

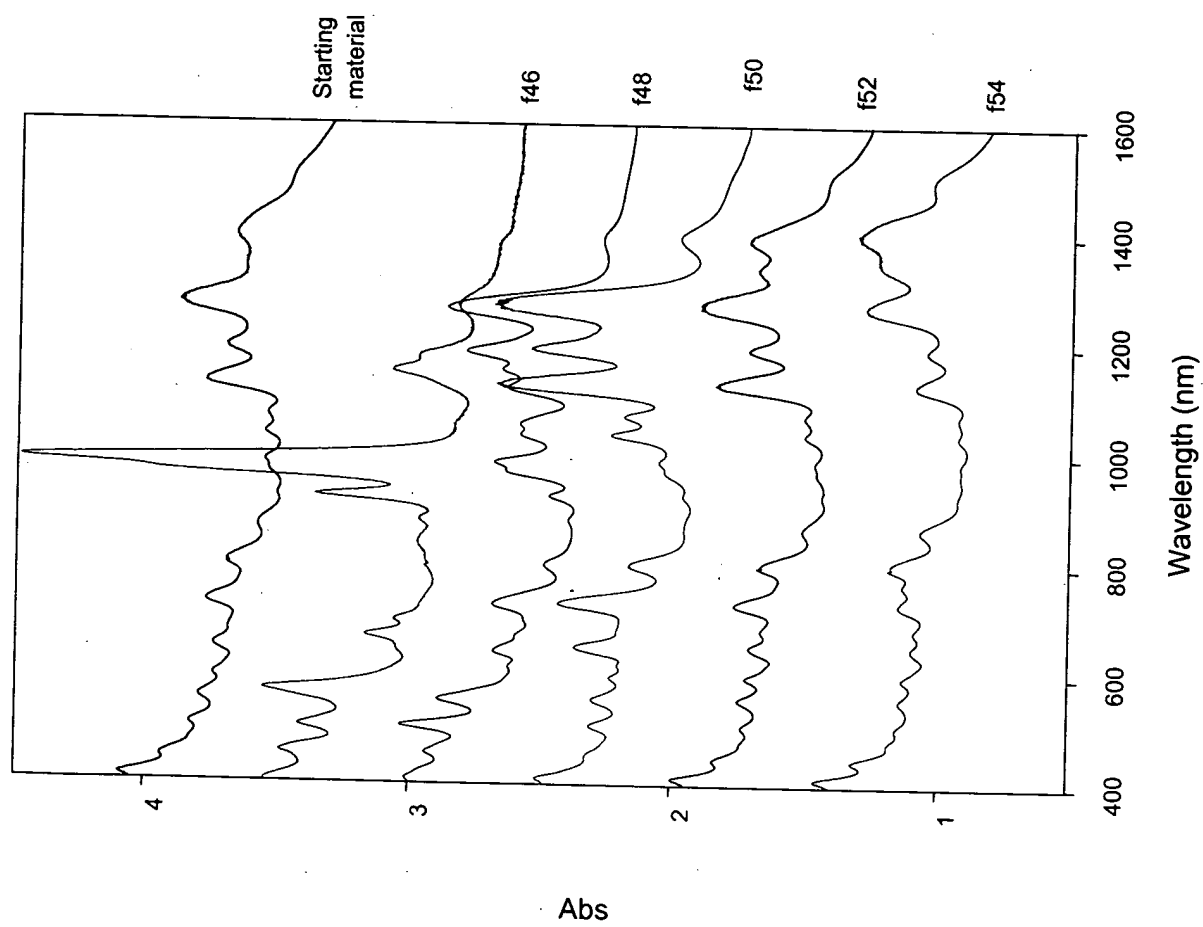


Figure 8. Optical absorption spectra of CNT separated by anion exchange

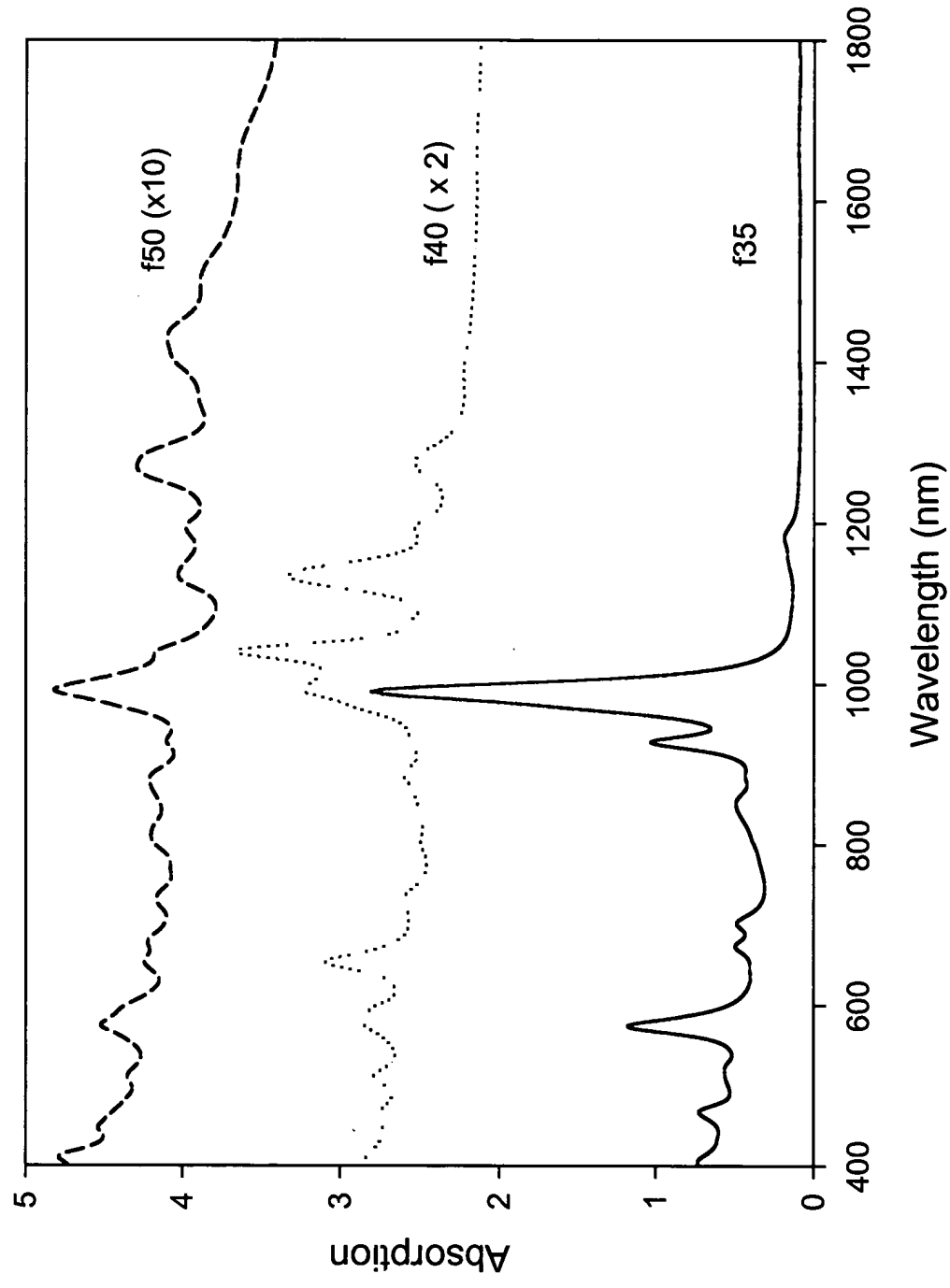
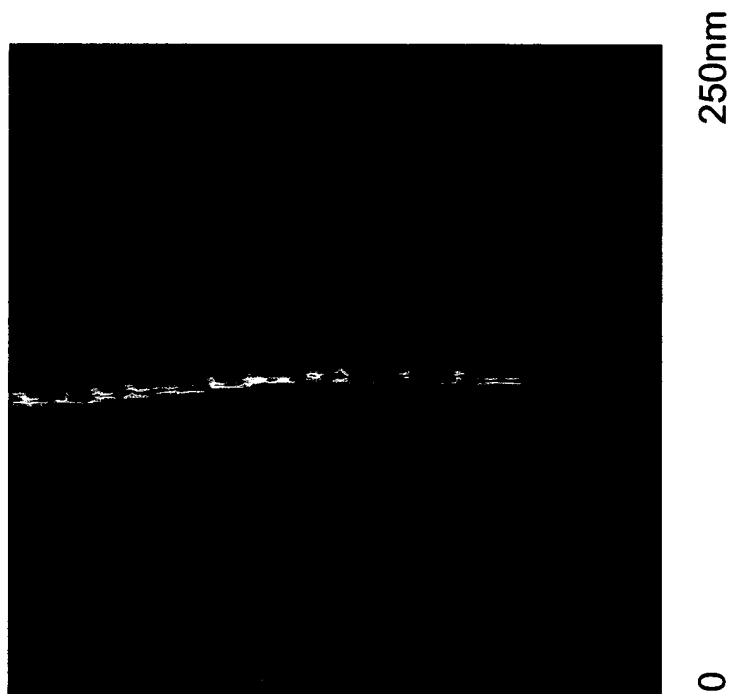


Figure 9. Optical absorption spectra of CNT separated by anion exchange



Avg spacing = 11nm
Ht of CNT=1.08nm
Width of CNT=1.9nm
Ht of CNT/DNA= 2.16nm

Figure 10
Micrograph of Wrapped Nanotube

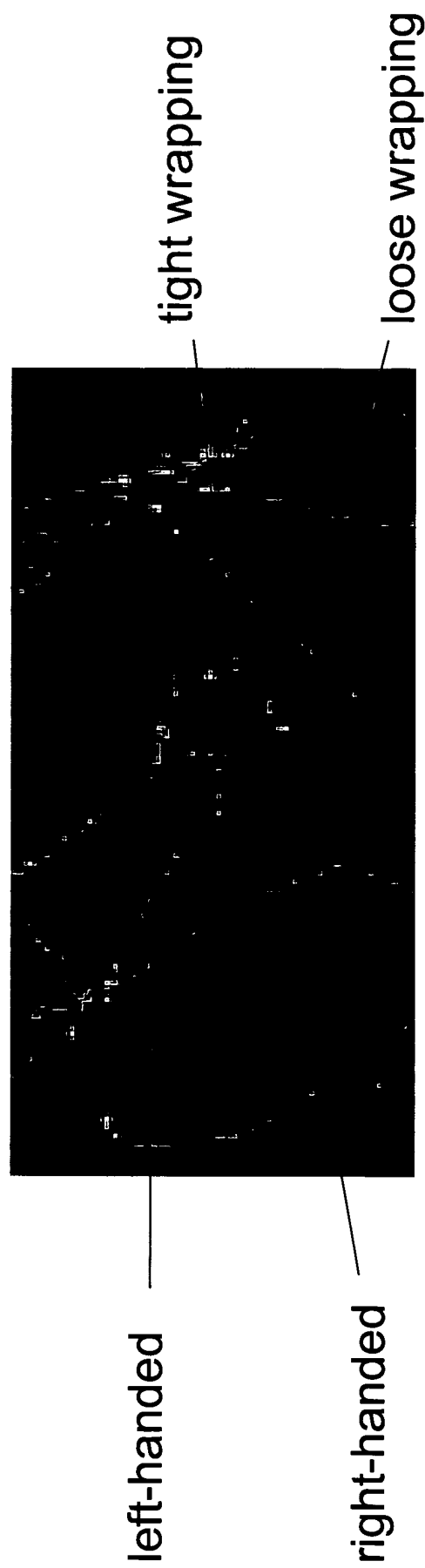


Figure 11
Micrograph of Different Modes of DNA Wrapping on Nanotubes